

**IN THE CLAIMS**

Please substitute the enclosed amended claims, for the claims presently on file.

We Claim:

1. – 58. (Cancelled)

59. (Cancelled)

60. (Cancelled)

61. (Cancelled)

62. (Currently Amended) A mutant strain of *H. pylori*, said mutant strain having deactivated at least one gene encoding a galactosyltransferase involved in the biosynthesis of a *H. pylori* lipopolysaccharide (LPS), said mutant strain failing to produce a wild type O-chain in its LPS according to claim 59, wherein the galactosyltransferase is coded by open reading frame 0826 from *H. pylori* strain 26695 or SS1.

63. (Withdrawn) A vaccine composition comprising an antigen derived from a mutant strain of *H. pylori* according to claim 59.

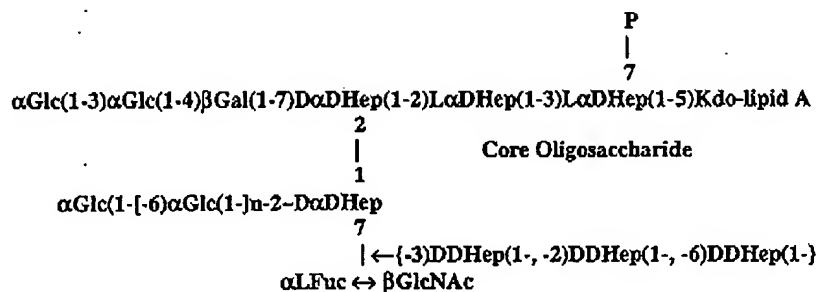
64. (Withdrawn) A vaccine composition according to claim 63, wherein the antigen is an at least partially purified lipopolysaccharide.

65. (Withdrawn) A vaccine composition according to claim 64, wherein the antigen is conjugated to a protein.

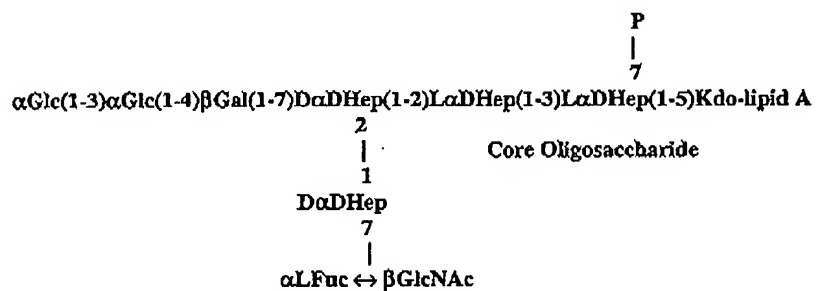
66. (Withdrawn) A live attenuated vaccine composition comprising a mutant strain of *H. pylori* according to claim 59.

67. – 70. (Cancelled)

71. (Cancelled) A mutant according to claim 62, producing LPS molecule with the structure:



72. (Previously Presented) A mutant according to claim 62, producing LPS molecule with the structure:



73. (New) A mutant strain according to claim 59, wherein the galactosyltransferase and is coded by open reading frame 0826 from *H. pylori* strain 26695 or SS1 is involved in the biosynthesis of the O-chain of the LPS, said mutant strain failing to produce a wild type O-chain in its LPS.

